



Maintenance Planning & Work Control
in the Oil & Gas Training



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Introduction:

Lower revenues from lower oil and gas prices have placed equipment lifecycle costs in the spotlight of maintenance management like never before. Maintenance managers must deliver the same equipment safety levels, reliability, and availability on smaller budgets.

This oil and gas maintenance planning and work control training course introduces the practical tools and practices that oil and gas industries need to adopt to reduce equipment lifecycle costs.

This oil and gas maintenance planning and work control course emphasizes the most effective strategies, policies, tactics, and practices needed to ensure physical assets' reliability, integrity, and durability throughout their lifecycle through proper planning and control of Maintenance activities.

Preventive and Predictive Maintenance in the Oil and Gas Industry:

This oil and gas maintenance planning and work control course recognizes the importance of preventive maintenance and the emerging field of predictive maintenance in the oil and gas industry. It dives deep into the types of maintenance that are crucial to the industry.

Participants will explore the nuances of oil and gas equipment maintenance, oil and gas plant maintenance, and oil and gas pipeline maintenance. We will also incorporate the best preventive and predictive maintenance practices to maximize asset uptime, throughput, and longevity.

Targeted Groups:

- Planners.
- Supervisors.
- Engineers.
- Reliability Engineers.
- Maintenance Team Leaders and Managers.
- Operations Team Leaders and Managers.

Course Objectives:

At the end of this oil and gas maintenance planning and work control course, the participants will be able to:

- Understand the failure mechanisms of Oil and Gas Assets.
- Identify the necessary work for asset life maximization.
- Apply the correct type of maintenance for each asset.
- Schedule work activities.
- Control time, budget, and scope during maintenance.
- Assess the performance of maintenance.

Targeted Competencies:

At the end of this oil and gas maintenance planning and work control training, the participants will be able to:

- Failure and Degradation characteristics of Oil and Gas assets.
- The oil and gas asset classification into the criticality matrix for work identification.
- Failure and degradation of assets.
- Prioritization of activities and correlation of Organization Structural Domain with Work Breakdown structure.
- Schedule activities.
- Proactive Practices and Tools to Reduce Maintenance Costs.
- Failure Analysis to Focus Cost Reduction Efforts.
- Work Management to Improve Resource Efficiency.

Course Content:

Unit 1: Maintenance Types and Asset Pairing:

- Definitions of Maintenance, Asset Management and Reliability.
- Material failure and degradation.
- Preventive-Predictive Maintenance.
- Reliability-centered maintenance and the failure rate mathematics.
- Life cycle costs and maintenance.

Unit 2: Planning -WBS-OBS:

- Work Order System WO for Planning.
- Work Breakdown Structure WBS.
- Organization Breakdown Structure OBS.
- Materials planning.
- Workforce planning.

Unit 3: Scheduling Principles:

- Programmed Preventive Maintenance Intervals.
- Condition-based Maintenance Intervals.
- Optimization of General Overhauls and maintenance periods in the life cycle of Plants.
- Critical Path Method CPM.
- PERT analysis.

Unit 4: Control of Time, Costs, and Work Quality:

- Monitor time domain using Gantt charts.
- Techniques to Keep under budget.
- Contingency and Management reserve.
- Acceptance of work scope according to ISO/API standards.

Unit 5: Maintenance Planning and Work Control Performance Analysis:

- Management of information flow.
- Performance Indicators.
- Workload Performance Indicators.
- Planning Performance Indicators.
- Effectiveness and Cost Performance Indicators.
- Maintenance data archiving.
- Management reports.

Conclusion:

In this maintenance planning and work control in oil and gas course, participants can achieve a certificate in oil and gas maintenance planning and work control that will further their credibility in the field.

This certification in oil and gas maintenance planning and work control enhances the participants' skill sets, instills confidence in the stakeholders, and improves the professionalism of maintenance handlers.